


## Mouse IL-6 Protein

Cat #: PRP1960

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Mouse IL-6 Protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1960	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 99% as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E. coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Interleukin-6 (IL-6) is a pro-inflammatory cytokine that also has an important role in immunity. Mouse IL-6 appears to be directly involved in the responses that occur after infection and injury and may prove to be as important as IL-1 in regulating the acute phase response. Mouse IL-6 is reported to be produced by fibroblasts, activated T cells, activated monocytes or macrophages, and endothelial cells. It acts upon a variety of cells, including fibroblasts, myeloid progenitor cells, T cells, B cells and hepatocytes. IL-6 has a wide variety of biological functions: it plays an essential role in the final differentiation of B-cells into Ig-secreting cells, it induces myeloma and plasmacytoma growth, nerve cells differentiation in hepatocytes, and acute phase reactants.

**Sequence:** Amino acid sequence derived from Mouse IL-6 (Phe25-Thr211) (P08505) was expressed.

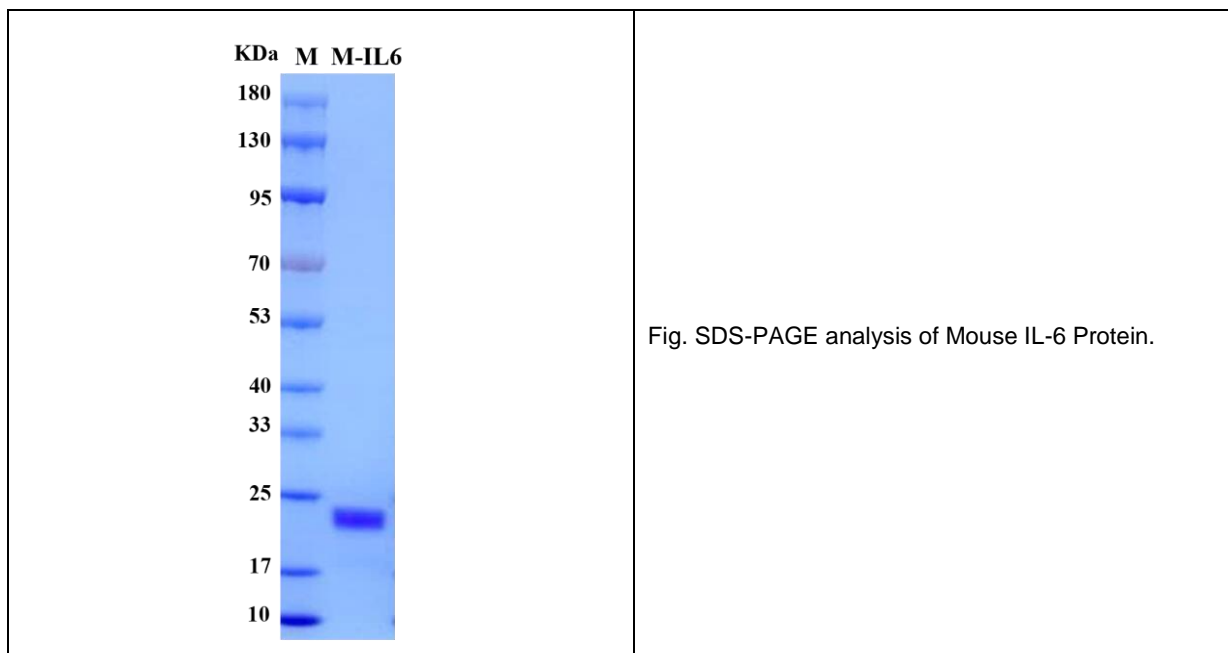
**Protein length:** The recombinant Mouse IL-6 consists of 187 amino acids and predicts a molecular mass of 21.9 kDa.

**Endotoxin:** < 0.1 EU per µg of the protein as determined by the LAL method.

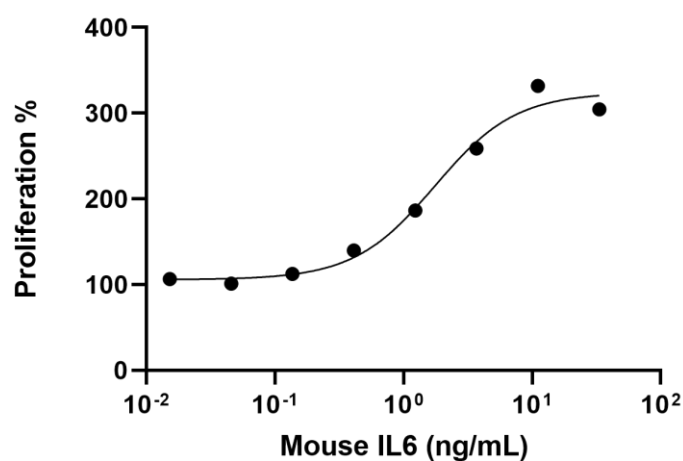
**Formulation:** Lyophilized from sterile 20 mM Tris, 150 mM NaCl, pH 7.4.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized protein using the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



**Biological Activity:** Measured in a cell proliferation assay using M-NFS60. The ED<sub>50</sub> for this effect is typically 1.75 ng/mL. The specific activity of recombinant Mouse IL6 is approximately  $>5.71 \times 10^5$  IU/mg.



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